# Product Requirements Document (PRD) – AI-Powered Resume Tailor Web App

## **Project Overview**

**Title:** AI-Powered Resume Tailor  
**One-liner:** A web app that allows users to upload and view resumes, analyze them using AI, and receive improvement suggestions, with secure magic link login.  
**Purpose:** Help job seekers optimize their resumes by providing personalized AI feedback in a simple, user-friendly interface.

## **Core Features**

| Feature | Description |
| --- | --- |
| 1. Resume Upload | Users can upload their resumes and view a list of all previously uploaded resumes. |
| 1. AI Resume Analyzer | Users can analyze any uploaded resume again, receiving fresh AI-generated feedback. |
| 1. Analysis Report | Analysis includes a score and personalized recommendations highlighting resume flaws and suggestions for improvement. |
| 1. Magic Link Login | Authentication through Supabase using email-based magic links. |
| 1. Data Storage | Metadata & auth: Supabase PostgreSQL. Full resume content & analysis: MongoDB. |
| 1. CI/CD Deployment | Vercel auto-deploys on every main branch push. |
| 1. Dashboard UI | Clean frontend displaying uploaded resumes, AI feedback, and status updates. |

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## **User Stories**

* As a user, I want to log in with my email using a magic link so I don’t need a password.
* As a user, I want to upload my resume, view all uploaded resumes, and get AI-powered analysis that provides a score and personalized suggestions for improvement.
* As a user, I want to view all my uploaded resumes in one place.
* As a user, I want to select any of my uploaded resumes and re-analyze them whenever needed.
* As a developer, I want automated deployment whenever I push code to GitHub.

## **Technical Requirements**

| Component | Stack/Tool |
| --- | --- |
| Frontend | Next.js (App Router), TailwindCSS, ShadCN UI |
| Backend | Next.js API Routes, n8n Workflows |
| Authentication | Supabase (Magic Link Auth) |
| Databases | Supabase PostgreSQL (metadata), MongoDB (content & analysis) |
| Hosting & CI/CD | Vercel with GitHub integration |
| AI Workflow | n8n logic calling Gemini API or custom endpoints |

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## **APIs & Integrations**

* **n8n Workflows:** Process resumes and generate AI analysis (score and improvement suggestions).
* **Supabase:** Magic link authentication & user metadata storage.
* **MongoDB Atlas:** Full resume content & AI analysis data storage.
* **Vercel:** Hosting with automated deployments.

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## **Non-Functional Requirements**

* Fully responsive design.
* Clear status indicators (uploaded, analyzing, completed).
* Secure login using special sign-in magic link, without storing passwords.
* Scalable workflow system using n8n.

## **Milestones**

The project was developed in iterative phases with continuous progress tracking:

* **Authentication & Database Setup:** Implemented secure email-based login via magic links using Supabase and configured databases for resume storage.
* **Resume Upload & Viewer UI:** Built frontend components for uploading resumes and viewing them in a dashboard layout.
* **AI Analysis Integration:** Connected uploaded resumes to n8n workflows, enabling AI-powered analysis that generates scores and actionable feedback.
* **Final Deployment & Testing:** Deployed the project live on Vercel, conducted thorough testing, and prepared demo materials.

## **Risks & Constraints**

* Dependency on n8n uptime for AI workflows.
* Supabase rate limits affecting simultaneous logins/uploads.
* MongoDB document size limits for very large resumes.
* Limited testing time for resume formats diversity.